

# SEQUENCE LISTING

<110> Crane, Virginia  
Simmons, Carl

<120> Maize Proteinase Inhibitor-Like  
Polynucleotides and Methods of Use

<130> 35718/239836

<150> 60/243,167

<151> 2000-10-25

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 565

<212> DNA

<213> Zea mays

<220>

<221> misc\_feature

<222> (0)...(0)

<223> Proteinase Inhibitor-Like cDNA

<221> CDS

<222> (60)...(353)

<400> 1

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Met Arg Pro Gln Leu Ile Leu Val Gly Thr Leu Ala Val Leu Ala Ile
  1             5             10             15

ctc gca gct ctc ggc gaa ggc tcg tcg tcc tgg ccg tgc tgc aac aac 155
Leu Ala Ala Leu Gly Glu Gly Ser Ser Ser Trp Pro Cys Cys Asn Asn
      20             25             30

tgc ggt gct tgc aac agg aag cag ccg cct gag tgc cag tgc aat gac 203
Cys Gly Ala Cys Asn Arg Lys Gln Pro Pro Glu Cys Gln Cys Asn Asp
      35             40             45

gtg tcg gtg aac ggg tgc cat ccg gag tgc atg aac tgc gtc aag gtc 251
Val Ser Val Asn Gly Cys His Pro Glu Cys Met Asn Cys Val Lys Val
      50             55             60

ggt gca gga att cgt ccc ggc atg ggc ccc ggc ccc gtc gtc acc tac 299
Gly Ala Gly Ile Arg Pro Gly Met Gly Pro Gly Pro Val Val Thr Tyr
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cgc tgt gat gac gtt ctc aca aac ttc tgc cag agc agc tgc ccg gag 347  
 Arg Cys Asp Asp Val Leu Thr Asn Phe Cys Gln Ser Ser Cys Pro Glu  
                     85                    90                    95

gcg tag ttgctgggtg gtggtgtctt cttctgacgc catgggacgc cagtacgcaa 403  
 Ala \*

ccagtttgc tctctccagc ttcgtcagac aagaaataga taaataaaca aatgtcaccg 463  
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 ataaataaat aaatagccaa aaaaaaaaaa aaaaaaaaaa aa 565

<210> 2  
 <211> 97  
 <212> PRT  
 <213> Zea mays

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 Met Arg Pro Gln Leu Ile Leu Val Gly Thr Leu Ala Val Leu Ala Ile  
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 Leu Ala Ala Leu Gly Glu Gly Ser Ser Ser Trp Pro Cys Cys Asn Asn  
                     20                    25                    30  
 Cys Gly Ala Cys Asn Arg Lys Gln Pro Pro Glu Cys Gln Cys Asn Asp  
                     35                    40                    45  
 Val Ser Val Asn Gly Cys His Pro Glu Cys Met Asn Cys Val Lys Val  
   50                    55                    60  
 Gly Ala Gly Ile Arg Pro Gly Met Gly Pro Gly Pro Val Val Thr Tyr  
  65                    70                    75                    80  
 Arg Cys Asp Asp Val Leu Thr Asn Phe Cys Gln Ser Ser Cys Pro Glu  
                     85                    90                    95  
 Ala

<210> 3  
 <211> 925  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> misc\_feature  
 <222> (0)...(0)  
 <223> Proteinase Inhibitor-like promoter

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 cgacatcagc agtggaagtc gctggtcggt gggttgcagc gtgtatacgt ggcattctagg 180  
 tggccttgat tttcttcttt gtcgcactgt ttctacattt cattggcaga tatgtatgaa 240  
 ctaaattatt ggccacttaa ggagggtgtt gaatgcaata aaactaatag ttagttgggt 300  
 aaaattgtta gtgaaattat cttagctaaca aatagctacc taactattaa ctaatttacc 360  
 aaaaataact tatagttaaa ttattaagtt gggctgtttg aatgtctcaa ctaattttag 420  
 ccactaactt ttatcttttag tgcattcaaa catggcataa gtctacgttt gatttgagac 480  
 ggtagcatcg tgcgtacgga agaggaacca aaaggatttt ccttgaaaaa tttcatgcac 540  
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gtcaatcatt gcggtgctga cgggtctaatt ttcttgcaac cagcaacttg aaagagacag 660
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ggtggtcaaa gatgatcttc aagaaaacat cctggatttt cctctttcat atattcatat 780
tcaccgtcag tacgcgtgta tgatttggct ttgtatttgc ttcttgtaca agagatgaac 840
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<210> 4

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide primer

<400> 4

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60

72